

# Delivery scheduling and dispatching

Automates delivery route planning and driver dispatch based on order volumes and constraints. Optimizes delivery efficiency while ensuring customer delivery windows are met.

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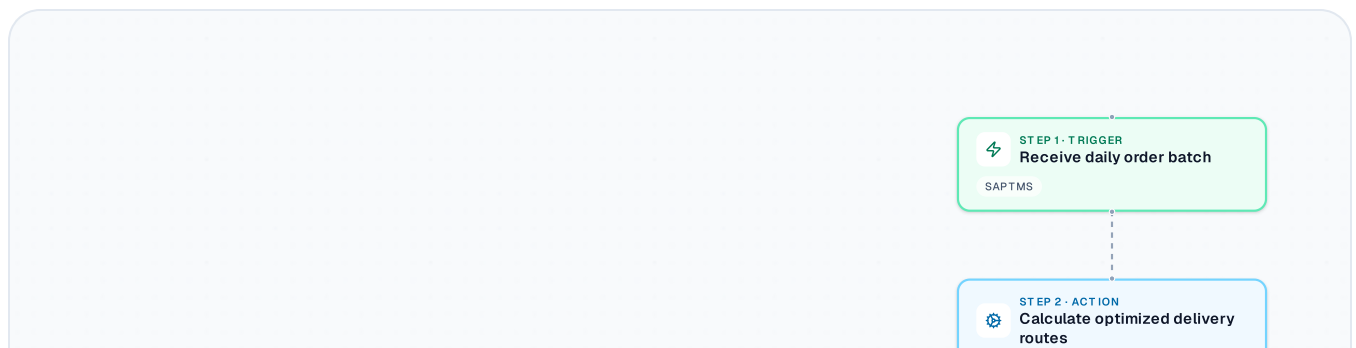


## WORKFLOW TRIGGER

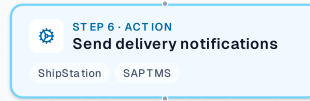
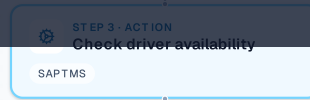
Daily order batch reaches cutoff time for next-day delivery processing

## Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.



Descartes Blue Yonder



## Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

## Receive daily order batch

System collects all pending orders that need to be scheduled for delivery. Orders include delivery addresses, time windows, and package specifications.

SAP TMS

2

 ACTION

## Calculate optimized delivery routes

AI system analyzes delivery locations, traffic patterns, and vehicle capacity to generate optimal route plans. Routes are prioritized by delivery time windows and efficiency.

Descartes

Blue Yonder

3

 ACTION

## Check driver availability

System queries driver schedules, working hours, and vehicle assignments to determine available capacity. Matches drivers to routes based on qualifications and location.

SAP TMS

4

 DECISION

## Evaluate capacity constraints

Determines if current driver and vehicle capacity can handle all scheduled deliveries. Routes workflow based on available resources versus delivery requirements.

5

 ACTION

### Assign routes to drivers

Automatically dispatches optimized routes to available drivers with delivery instructions. Sends route details and customer information to driver mobile devices.

SAP TMS

Descartes

6

 ACTION

### Send delivery notifications

Generates automated notifications to customers with estimated delivery times and tracking information. Updates internal systems with dispatch status.

ShipStation

SAP TMS

7

 OUTPUT

### Generate dispatch summary

Creates comprehensive dispatch report showing assigned routes, driver schedules, and delivery commitments. Provides real-time tracking dashboard for operations team.

SAP TMS

Descartes



## Outputs

- Optimized delivery routes
- Driver dispatch assignments
- Customer delivery notifications
- Real-time tracking dashboard



## Key Metrics

- Route efficiency percentage
- On-time delivery rate
- Driver utilization rate



## Tools & Integrations

- SAP TMS
- Descartes
- Blue Yonder
- ShipStation

## AI Business OS

## AI Business OS

Actionable AI implementation strategies for business leaders ready to transform their operations.

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